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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/533,732	05/04/2005	Masatomi Sato	U 015758-0	7971	
LADAS & PAR	7590 07/23/200 RRY LLP	8	EXAMINER		
26 WEST 61ST NEW YORK, N	STREET		HOOK, JAMES F		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/533,732	SATO, MASATOMI	
Office Action Summary	Examiner	Art Unit	
	James F. Hook	3754	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by si Any reply received by the Office later than three months after the n earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communicat BANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 1 2a) This action is FINAL . 2b)	This action is non-final. owance except for formal ma	•	is
Disposition of Claims			
4) Claim(s) 1,3,4 and 7-9 is/are pending in the 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,4 and 7-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction ar	ndrawn from consideration. and/or election requirement.		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a 	nents have been received. nents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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DETAILED ACTION

Specification

The amendment filed April 11, 2008 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: thicknesses of 0.7-0.9mm for the outermost resin layer is capable of not having cracks when a 900g weight is dropped on it, where the specification states a 300g weight or 450g, and figure 6 states 900g but that the cracks were not present in thicknesses of 0.8 or 0.9, therefore there is not support in the original specification that the range of 0.7-0.9mm would meet the no crack limitation especially when only 0.8 and 0.9 are set forth as being tested and found not to crack, where 0.7 from a 900g weight cracked, and there is no suggestion that all the thicknesses that would occur within the range, other than 0.8 or 0.9mm thicknesses would also not crack under the test. Therefore, such is considered new matter where the original specification does not support a complete thickness range of 0.7-0.9mm being capable of not cracking under the 900g weight.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 1, 3, 4, and 7-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. As set forth above, the originally filed specification fails to support the added limitations to claim 1 and 8 with regards to no cracking occurring when a 900g weight is dropped and the thickness ranges of the layer is 0.7-0.9mm, where as set forth above, the specification and the table of figure 6 do not provide support that the thickness of 0.7 does not crack under the 900g weight, and also does not cover the complete range including all values of thickness that would occur between 0.7-0.9mm, where support is only found for the specific thickness of 0.8mm and 0.9mm, and no other thickness. Therefore, the language added to the claim is not supported by the originally filed specification and is considered new matter.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka in view of Venkataswamy, lio (489), and Ohmae (159). The patent to Tanaka discloses the recited laminated resin tube comprising a plurality of resin layers

wherein at least one of the plurality of layers is formed of a composite material which inherently would have impact resistance made up of polyamide mixed with a polyolefin elastomer, where it is the outermost layer to an inner layer of resin such as polyamide, at least the innermost layer is a low permeability layer, and the method of forming a tube from this make up is also disclosed. The patent to Tanaka discloses all of the recited structure with the exception of disclosing what type of polyamide is combined with the thermoplastic elastomer and in what amounts, the thickness of the outer layer, and forming such into pellets. The patent to Venkataswamy discloses that it is old and well known in the art to combine a polyamide or nylon such as polyamide 11 with a olefin elastomer in ranges which overlap those claimed in claims 1, 5, and 6. It would have been obvious to one skilled in the art to modify the composite material in Tanaka by using a specific type of polyamide such as polyamide 11, and using specific amounts combined with the olefin elastomer to arrive at the composite material as such are known materials and amounts used to form composite layers used in equivalent composite mixtures as suggested by Venkataswamy, where such is equivalent materials and Tanaka is silent on specific amounts and types of nylon used, where such would provide a useable compound material of specific properties to meet the needs of the user and increase the usefulness of the tube in Tanaka. The patent to Ohmae discloses that it is old and well known in the art to form the composite materials by creating pellets of the material before such is formed into it's final shape, especially when forming composites of polyamide and olefin elastomers. It would have been obvious to one skilled in the art to modify the material in Tanaka to be formed into

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pellets prior to forming into the final tube structure as suggested by Ohmae where such is a known method of preparing materials for production of hoses and would allow for a better combination of materials. The reference to lio discloses that it is old and well known to form a layer of mixture of polyamide and olefin elastomer which is provided with impact resistant polymer for an outer layer, and where this layer ranges in thickness of 0.3-1.0mm which teaches that layers made up of thermoplastic mixtures such as polyamide with olefin elastomer and additional impact resistant polymers are known to be formed in thicknesses that cover the range of 0.7-0.9mm. It would have been obvious to one skilled in the art to form the outer mixture layer of Tanaka as an impact resistant layer which can be a thickness that covers the range of 0.7-0.9mm as suggested by lio, where such is a known equivalent thickness used for such layers to make an impact resistant layer where such would prevent failure of the layer, and the use of a specific test is considered an inherent property to the material, where a teaching of the same material of the same thickness would inherently meet the requirements of the specific test used.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka in view of Venkataswamy, Iio (489), and Ohmae (159) as applied to claims 1, 3, and 7-9 above, and further in view of Kito. The patent to Tanaka as modified discloses all of the recited structure with the exception of forming the inner layer of a pair of layers of PPS where the innermost is loaded with a conductive material. The patent to Kito discloses the recited laminated resin tube where the inner layer can be formed of a plurality of layers including the use of various materials such as polyamides and PPS for the inner

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layers, where the innermost layer can be provided with carbon black to make it conductive to dissipate charge. It would have been obvious to one skilled in the art to modify the inner layer of Tanaka as modified to be made of a plurality of layers, and to substitute PPS for the polyamide used to form the inner layer, and to provide the innermost layer with conductive material to make it conductive as suggested by Kito where such would provide a hose having a more resistant inner core layer that is resistant to different materials as would be required by the user to meet his/her needs depending upon the environment in which the tube was to be used, and to make the innermost layer conductive to dissipate charge and avoid failure due to materials catching fire as charge builds up in the interior of the tube thereby saving money in replacement costs and damages.

Claims 1, 3, and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka in view of Venkataswamy, Ohmae (159), and Ito (085). The patent to Tanaka discloses the recited laminated resin tube comprising a plurality of resin layers wherein at least one of the plurality of layers is formed of a composite material which inherently would have impact resistance made up of polyamide mixed with a polyolefin elastomer, where it is the outermost layer to an inner layer of resin such as polyamide, at least the innermost layer is a low permeability layer, and the method of forming a tube from this make up is also disclosed. The patent to Tanaka discloses all of the recited structure with the exception of disclosing what type of polyamide is combined with the thermoplastic elastomer and in what amounts, forming the material into pellet form, and the thicknesses of the outermost layer. The patent to

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Venkataswamy discloses that it is old and well known in the art to combine a polyamide or nylon such as polyamide 11 with a olefin elastomer in ranges which overlap those claimed in claims 1, 5, and 6. It would have been obvious to one skilled in the art to modify the composite material in Tanaka by using a specific type of polyamide such as polyamide 11, and using specific amounts combined with the olefin elastomer to arrive at the composite material as such are known materials and amounts used to form composite layers used in equivalent composite mixtures as suggested by Venkataswamy, where such is equivalent materials and Tanaka is silent on specific amounts and types of nylon used, where such would provide a useable compound material of specific properties to meet the needs of the user and increase the usefulness of the tube in Tanaka. The reference to Ito discloses that it is old and well known to make outermost layers of elastomeric polyamides which are known in the art to be polyamide blends with elastomeric materials similar to that set forth in Tanaka, and that such outermost protective layers can be sized to a thickness of 0.5-1mm thereby teaching thicknesses of the outermost layers of a polyamide blend is known in the art. It would have been obvious to one skilled in the art to modify the outermost layer of Tanaka to be of any thickness known in the art including a range of 0.7-0.9mm as such is known in the art to form the outermost layer of these thicknesses and that such is a known thickness that allows for flexibility as well as protection as suggested by Ito, where such would improve flexibility and reduce costs, and such is a known thickness used in the art. The patent to Ohmae discloses that it is old and well known in the art to form the composite materials by creating pellets of the material before such is

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formed into it's final shape, especially when forming composites of polyamide and olefin elastomers. It would have been obvious to one skilled in the art to modify the material in Tanaka to be formed into pellets prior to forming into the final tube structure as suggested by Ohmae where such is a known method of preparing materials for production of hoses and would allow for a better combination of materials.

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Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka in view of Venkataswamy, Ohmae (159) and Ito as applied to claims 1, 3, and 7-9 above, and further in view of Kito. The patent to Tanaka as modified discloses all of the recited structure with the exception of forming the inner layer of a pair of layers of PPS where the innermost is loaded with a conductive material. The patent to Kito discloses the recited laminated resin tube where the inner layer can be formed of a plurality of layers including the use of various materials such as polyamides and PPS for the inner layers, where the innermost layer can be provided with carbon black to make it conductive to dissipate charge. It would have been obvious to one skilled in the art to modify the inner layer of Tanaka as modified to be made of a plurality of layers, and to substitute PPS for the polyamide used to form the inner layer, and to provide the innermost layer with conductive material to make it conductive as suggested by Kito where such would provide a hose having a more resistant inner core layer that is resistant to different materials as would be required by the user to meet his/her needs depending upon the environment in which the tube was to be used, and to make the innermost layer conductive to dissipate charge and avoid failure due to materials catching fire as charge

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builds up in the interior of the tube thereby saving money in replacement costs and damages.

Response to Arguments

Applicant's arguments with respect to claims 1, 3, 4, and 7-9 have been considered but are moot in view of the new ground(s) of rejection. There was no argument directed at the rejection based upon Tanaka in view of Venkataswamy, Ohmae (159), and Ito (085) which teaches the thickness range, and it is considered inherent that a teaching of the same material in the same thickness would inherently meet the same test for cracking as applicants in that such is inherent properties of the material and would be met by the same material for the same reasons applicants meets the limitations.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references to Nishino, Watanabe (071, 470, and 066), lio (313), and Ito (312) disclosing state of the art hoses.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James F. Hook whose telephone number is (571) 272-4903. The examiner can normally be reached on Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James F. Hook/ Primary Examiner, Art Unit 3754

JFH